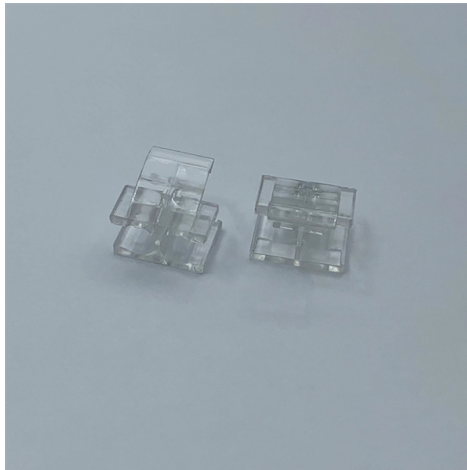


How to use a router with self-operated fiber optic cable



AI Overview

You cannot connect a fiber optic cable directly to a standard router; you need an Optical Network Terminal (ONT) to convert the fiber signal into Ethernet, which your router can then use.

Required Equipment

- Optical Network Terminal (ONT):** Converts light signals from the fiber into electrical signals compatible with your router. Usually provided by your ISP or purchased separately if self-operated.
- Fiber optic cable:** Typically single-mode with SC/APC or SC/UPC connectors.
- Ethernet cable:** To connect the ONT to your router's WAN port.
- Router:** Ensure it supports gigabit speeds or higher to fully utilize fiber performance.

Step-by-Step Setup

- Locate the fiber entry point:** Identify where your fiber optic cable enters your home. This is where the ONT will be installed.
- Connect the fiber cable to the ONT:** Remove protective caps from both the fiber cable and the ONT port. Align the connector carefully and insert it until it clicks securely. Handle the fiber by its plastic housing to avoid damage.
- Power on the ONT:** Plug in the ONT and wait for the status lights to stabilize, which may take 2-5 minutes. A solid green power light indicates proper operation.
- Connect the ONT to your router:** Use an Ethernet cable to link the ONT's LAN/Ethernet port to the router's WAN port. The WAN port is usually labeled and may be colored differently.
- Power on the router:** After the ONT is stable, turn on your router and wait for the indicator lights to confirm a successful connection.
- Configure the router:** Access the router's admin panel via a browser (commonly at 192.168.1.1). Set the WAN connection type according to your ISP's requirements, typically "Dynamic IP" or "PPPoE".
- Verify the connection:** Test your internet by browsing or running a speed test. Ensure Wi-Fi and wired devices are receiving the expected speeds.

Precautions

- Avoid bending the fiber cable sharply; it can damage the fiber strands

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